Software Requirements Specification Document Version 1

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Project Description

Spartan Tutoring Online Platform

Spartan Tutoring Online Platform is a web application designed to connect students with tutors for online learning sessions. The platform enables students to find tutors based on subjects, availability, and ratings while allowing tutors to manage their schedules and interact with students efficiently.

Goals

- Help students access quality tutoring services easily.
- Enable tutors to reach more students and manage their schedules efficiently.
- Provide a secure and moderated environment for learning interactions.

Functional Requirements

Student (Customer) Role- Kannan

1. **Create/Modify Student Profile**

   - Students can create an account with their name, email, and password.
   - Edit profile details such as preferred subjects, availability, and learning preferences.
   - Update contact details and profile picture.
2. **View Available Tutors**

   - Search for tutors based on subject expertise, availability, and ratings.
   - View tutor profiles, including reviews from other students.
3. **Book Tutoring Sessions**

   - Select a tutor and schedule a session based on availability.
   - Receive confirmation notifications via email or in-app messaging.
4. **Write Reviews**

   - Provide feedback and rate tutors after a completed session.
   - Edit or delete reviews if needed.

Tutor (Provider) Role

1. **Create/Modify/Remove Tutor Profile**

   ○ Register with name, email, and password.
   ○ Set expertise areas, availability, and profile description.
   ○ Modify or remove profile when needed.
2. **List Subjects & Availability**

   ○ Add and update subjects they are willing to tutor.
   ○ Set available hours for booking.
3. **Manage Student Interactions**

   ○ Accept or reject session requests.
   ○ Communicate with students through in-app messaging.
4. **Reply to Reviews**

   ○ Respond to student feedback to address concerns or thank them.

Non-functional Requirements

1. **Performance**
   ○ The system should handle up to 1,000 concurrent users with a response time under 2 seconds.
2. **Security**
   ○ All user data should be encrypted using SSL/TLS protocols.
   ○ Two-factor authentication should be available for user logins.
3. **Usability**
   ○ The platform should have a clean UI with accessible navigation for both students and tutors.
   ○ Users should be able to book a session in less than 5 clicks.

Scenarios

Student Scenarios

Scenario 1: Create/Modify Student Profile

Actor: Student
Preconditions: The student has an internet connection and access to the platform.
Steps:

1. The student opens the Spartan Tutoring Online Platform and clicks on "Sign Up."
2. They enter their name, email, password, and preferred subjects.
3. They save the profile, which gets stored in the database.
4. If modifying, they navigate to "Profile Settings," edit details, and save changes.

Postconditions: The student's profile is created or updated successfully.

Scenario 2: View Available Tutors

Actor: Student
Preconditions: The student is logged into the platform.
Steps:

1. The student selects "Find a Tutor" from the main menu.
2. They filter tutors by subject and availability.
3. The system displays a list of tutors matching the criteria.
4. The student clicks on a tutor's profile to view more details.

Postconditions: The student can view available tutors and make an informed choice.

Scenario 3: Book Tutoring Sessions

Actor: Student
Preconditions: The student is logged in and has viewed tutor profiles.
Steps:

1. The student selects a tutor and clicks "Book Session."
2. They choose an available time slot and confirm the session.
3. The tutor receives a booking request notification.
4. Upon tutor approval, the student gets a confirmation email.

Postconditions: The session is booked successfully and appears on the student's dashboard.

Scenario 4: Write Review

Actor: Student
Preconditions: The student has attended a session.
Steps:

1. The student navigates to "My Sessions" and selects the completed session.
2. They click "Write Review," enter feedback, and submit it.

Postconditions: The review appears on the tutor's profile.

Tutor Scenarios

Scenario 1: Create/Modify/Remove Tutor Profile

Actor: Tutor
Preconditions: The tutor has an internet connection and access to the platform.
Steps:

1. The tutor opens the platform and clicks on "Sign Up."
2. They enter their name, email, password, and areas of expertise.
3. The tutor saves the profile, which gets stored in the database.

4. If modifying, they navigate to "Profile Settings," edit details, and save changes.
5. If removing, they click "Delete Profile," and the system removes their profile from active listings.

Postconditions: The tutor's profile is created, updated, or deleted successfully.

Scenario 2: List Subjects & Availability

Actor: Tutor
Preconditions: The tutor is logged in.
Steps:

1. The tutor navigates to "Manage Subjects & Availability."
2. They add or update their list of subjects.
3. They set available time slots for sessions.
4. The system updates their profile.

Postconditions: Students can see updated subjects and availability.

Scenario 3: Manage Student Interactions

Actor: Tutor
Preconditions: The tutor has received session requests.
Steps:

1. The tutor views pending session requests.
2. They accept or decline each request.
3. If accepted, the system notifies the student.

Postconditions: The session is either confirmed or declined.

Scenario 4: Reply to Reviews

Actor: Tutor
Preconditions: The tutor has received student reviews.
Steps:

1. The tutor navigates to "My Reviews."
2. They select a review and click "Reply."
3. They enter a response and submit it.

Postconditions: The response appears below the student's review.